

Title (en)
TUNABLE OPTICAL FILTER, TUNABLE OPTICAL ASSEMBLY, AND MULTI-WAVELENGTH PASSIVE OPTICAL NETWORK SYSTEM

Title (de)
EINSTELLBARER OPTISCHER FILTER, EINSTELLBARE OPTISCHE ANORDNUNG UND PASSIVES OPTISCHES NETZWERKSYSTEM MIT MEHREREN WELLENLÄNGEN

Title (fr)
FILTRE OPTIQUE ACCORDABLE, ENSEMBLE OPTIQUE ACCORDABLE ET SYSTÈME DE RÉSEAU OPTIQUE PASSIF À MULTIPLES LONGUEURS D'ONDE

Publication
EP 2866075 A1 20150429 (EN)

Application
EP 12879354 A 20120621

Priority
CN 2012077341 W 20120621

Abstract (en)
The present application provides a tunable optical filter, including: a substrate, a tunable filter unit, a temperature control unit, and an enclosure, where: the substrate, the tunable filter unit, and the temperature control unit are placed inside the enclosure, where the enclosure includes a light incidence window and a light emergence window; the substrate is disposed adjacent to the light incidence window or the light emergence window, and configured to support the tunable filter unit; the temperature control unit is disposed on a surface of the tunable filter unit, and configured to adjust a channel wavelength of the tunable filter unit by means of temperature control; and optical paths of the light incidence window, the tunable filter unit and the light emergence window are aligned. The present application further provides an optical receive component, an optical transceiver component, and a multi-wavelength passive optical network system.

IPC 8 full level
G02F 1/01 (2006.01); **G02B 6/42** (2006.01)

CPC (source: EP US)
G02B 6/4215 (2013.01 - EP US); **G02F 1/0147** (2013.01 - EP US); **H04B 10/40** (2013.01 - EP US); **H04B 10/615** (2013.01 - US); **H04J 14/0282** (2013.01 - EP US); **G02B 6/4246** (2013.01 - EP US)

Cited by
EP3534204A4; US10880004B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2866075 A1 20150429; EP 2866075 A4 20150729; EP 2866075 B1 20171213; AU 2012383347 A1 20150122; AU 2012383347 B2 20160616; CA 2877407 A1 20131227; CA 2877407 C 20170808; CN 102870037 A 20130109; CN 102870037 B 20160629; ES 2657872 T3 20180307; JP 2015521754 A 20150730; JP 6490005 B2 20190327; US 2015104199 A1 20150416; US 9436021 B2 20160906; WO 2013189075 A1 20131227

DOCDB simple family (application)
EP 12879354 A 20120621; AU 2012383347 A 20120621; CA 2877407 A 20120621; CN 2012077341 W 20120621; CN 201280000514 A 20120621; ES 12879354 T 20120621; JP 2015517578 A 20120621; US 201414577947 A 20141219